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8 1 8 11 1

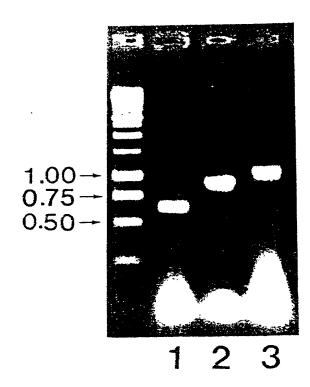


FIG. 2

| CCTCCAGCAGCAATAGTGAAGCTCCAACCCCTGTCAGAGAAGTTACCGATGACGACTCAAATGTCCTCGGGAAACACACAGAAAAGCCCAGAGATGCGACGGGACAGC LOORIVKLOPLSEKELPMITOMSSGNTESPEMRRDS GAGCAGCA I GGGAA I GGAGAGC I GCGGGGCA I GTI CACGAI CAAT I GGCGGGCI GGGGAACCAGA I GGGCGAA I ACGCCACACI CTI I GCAC I GGCCAGGAI G Q H G N G E L R G M F T I N S I G R L G N Q M G E Y A T L F A L A R M AACGGACGGCTTGCGTTCATCCCCGCATCCATGCACAACGCTCTAGCGCCCATCTTCAGGATCAGCCTCCCGGTGTTACACACGCGACACGGCCAAAAAAGATCCCATGG N G R L A F I P A S M H N A L A P I F R I S L P V L H S D I A K K I P

CAGAATTACCATCTCAACGACTGGATGGAGGAGCGTTACCGCCACATTCCGGGACACTTTGTGCGCTTCACGGGATACCCGTGCTCCTGGACCTTCTACCACCACCTG Q N Y H L N D W M E E R Y R H I P G H F V R F T G Y P C S W T F Y H H L S 0 P RPEILKEFTLHDHVREEAQAFLRGLRVMG GG 1G1CCA1G1GCGCCGAGGGGACTA1G1GCA1G1CA1GCC1AA1G1GGAAGGGCG1GG1GGCTGACCGGGGT1ACC1GGAAAAGGCCC1GGA1A1G11CCGGGCA G D Y V H V M P N V W K G V V A D R G Y L E K A L D M F R A <u>~</u>

CGCTATICATCICCAGICTICGIGGITACAAGCAACGGIAIGGCCIGGIGCCGGGAAAAITAAIGCIICCCGAGGAGACGIGGIGIICGGGGGAAIGGIAIIGAG RYSSPVFVVTSNGMAWCRENINASRGDYVFAGNGIE GGG T GCCCAGCCAAGGACT T GGCG C T GCCACCCAG T GCAACCAACCAT CATGACTATT GGCATT T GGCATTT GGCCT GCCTACCTACCAGG T GTACCATC AKDFALLTQC [N] H T I M T I G T F G I W A A Y L A G G D T I

Y L A NJ Y T L P D S P F L K V F K P E A A F L P E W V G I P A D L S P L

CTTAAGGCATTAACACCAGCCTGTCCTCGGTCCCACTTCCACGTCAAGGCAAAAGGAGTCACTTGTTACGTCGCAGGAAGAGCCTTCTGATGGGAA L K A L T P A C P R S H F H L K A K G V T C Y V A G R A F

FIG.3A

## 

| Rat H35 cell fucT | LQQRIVKLQPLSEKELPMITQMSSGNIESPEMRRDSEQHCNGEL                               | 44  |
|-------------------|--|-----|
| Human Sec2        | MLVVQMPFSFPMAHFILFVFTVVSTIFHVQQLAKIQAMMELPVQIPVLASTSKALGPSQL               | 09  |
| Rat H35 cell fucT | RCMFTINSIGRLGNOMGEYATLFALARMNGRLAFIPASMHNALAPIFRISLPVLHSDTAK               | 104 |
| Human Sec2        | RGMWT I NA I GRL GNOMGE YATL YALAKMINGRPAF I PAQMHSTLAP I FRITLPVLHSATAS   | 120 |
| Rot H35 cell FucT | K I PWQNYHL NDWAEERYRH I P-GHFVRFTGYPCSWTFYHHLRPETLKEFTLHDHVREEAQ          | 163 |
| Human Sec2        | R I PWQNYHL NDWAEEE YRH I PPGE YVRF TGYPCSWTF YHHLRQE I LQEF TL HDHVREE AQ | 180 |
| Rol H35 cell fucT | AFLRGLRVNGSQPSTFVGVHVRRGDYVHVMPNVMLGVVADRGYLEKALDMFRARYSSPVF               | 223 |
| Human Sec2        | KFLRGLQVNGSRPGTFVGVHVRRGDYVHVMPKVMLGVVADRRYLQQALDWFRARYSSLIF               | 240 |
| Rat H35 cell FucT | VVISNGMAWCREN I NASRGDVVF AGNG I EGSPAKDFALL TQCNHT I MT I GTFG I WAAYLA   | 283 |
| Human Sec2        | VVTSNGMAWCRENIDTSHCDVVFACDCIEGSPAKDFALLTQCNHTIMTIGTFGIWAAYLA               | 300 |
| Rot H35 cell FucT | GCDT I YL ANYTL POSPFLKVFKPEAAFL PEWVG I PADL SPL LKAL TPACPRSHFHLKAKG     | 343 |
| Human Sec2        | GGDTIYLANYTLPDSPFLKIFKPEAAFLPEWTGIAADLSPLLKH                               |     |
| Rol H35 cell FucT | VICYVAGRAF   |     |

FIG.3B

1 2 3 4

FIG. 4

## WASAOVPFSFPLAHFLIFVFVTSTIIH

CC I CCAGCAGOGAATAG I GAAGC I CCAACCCCTG I CAGAGGAATTACCGA I GACGAC I CAAAI G I CC I CCGGAAAACACACAGAAAGCCCAGAGATGCGAAGGGGACAGA L O O R I V K L O P L S E K E L P M T T O M S S G N T E S P E M R

GACCACCATGGGAATGGAGAGCTGCGGGGGATGTTCACGATGCATTGGCCGGCTGGGGAACCAGATGGGCGAATACGCCACACTCTTTGCACTGGCCAGGATG EQHGNGELRGMFTINSIGRLGNQMGEYATLFALARM AACGGACGGC TTGCG TTCATCCCCGCATCCATGCACAACGCTCTAGCGCCCATCTTCAGGATCAGCCTCCCGGTGTTACACAGCGACACGGCCAAAAAAGATCCCATGG N G R L A F I P A S M H N A L A P I F R I S L P V L H S D T A K K I P W CAGAATTACCATCTCAACGACTGGATGGAGGGGTTACCGCCACATTCCGGGACACTTTGTGGGCTTCACGGGATACCGGTGCTCCTGGACCTTCTACCACCACCTG ONYHLNDWMEERYRHIPGHFVRFIGYPCSWTFYHHL

CGCCCAGAGA I CC I GAAGGAG I I CACCC I GCAI GACCACG I GCGCGAGGGCCC AGGCC I I CC I GCG I GCGG I GAA I GGGAGCCAGCCCAG I AC I I I I G I G RPEILKEFTLHDHVREEAQAFLRGLRVNGSOPSTFV GG IG ICCA IG I CCCCCCAGGGGAC I A IG I GCA I GI CA I GCCI AA I GI GI GGAAGGGCC I GCI GACCGGGG I I ACCI GGAAAAGGCCC I GGAI A I GI I I CCGGGCA G V H V R R G D Y V H V M P N V W K G V V A D R G Y L E K A L D M F

CGCTATICATCTCCAGICTTCGTGGTTACAAGCAACGGTATGGCCTGGTGCCGGAGAACATTAATGCTTCCCGAGGAGACGTGGTGTTCGCGGGAATGGTATTGAG SPVFVVTSNGMAWCRENINASRGDVVFAGNGIE GGG TCGCCAGCCAAGGACT TCGCGCTGCTCACCCAGTGCAACCACCATCATGACTATTGGGACCTTTGGGATT TGGGCTGCCTACCTGCCAGGTGGTGATACCÁTC SPAKDFALLTQC NAHTIM TIGTFG I WAAYLAGG

Y L A N Y T L P D S P F L K V F K P E A A F L P E W V G I P A D L S P L

CTTAAGGCATTAACACCAGCCTGTCCTCCGTCCCACTTCCACCTCAAGGCAAAAGGAGTCACTTGTTACGTCGCAGGAAGAGCCTTCTGATGGGAA L K A L T P A C P R S H F H L K A K G V T C Y V A G R;A F

FIG.5

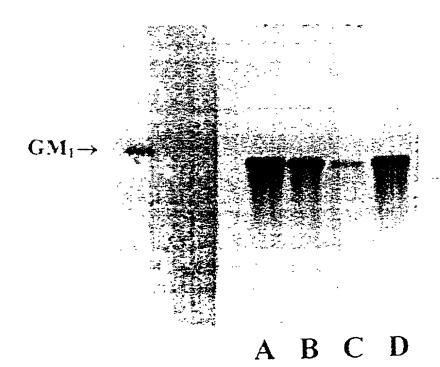


FIG. 6

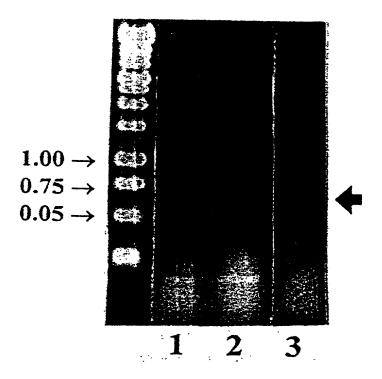


FIG. 7

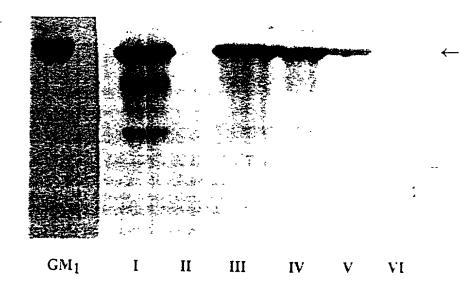


FIG. 8A

|              | cpm - background | % initial activity |
|--------------|------------------|--------------------|
| I            | 19,832           | 100                |
| II           | 0                | 0                  |
| III          | 6,726            | 34                 |
| IV           | 4,917            | 25                 |
| $\mathbf{V}$ | 1,043            | 5.3                |
| VI           | 104              | 0.52               |

FIG. 8B

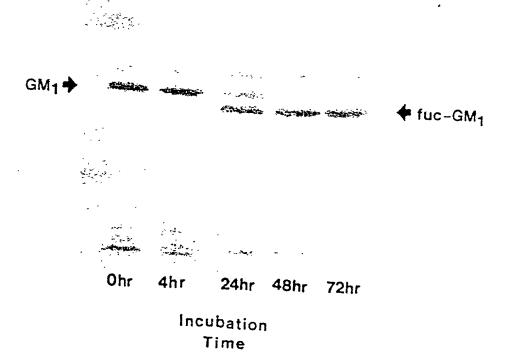


FIG. 9